Impulse switch mode with off delay

ENYA series
Energy saving function
Low switching noise
High switching capacity, 80A peak inrush current
Automatic 3/4 - wire detection
Push-button glow lamp load up to 100mA
Width 17.5mm
Installation design

Technical data

1. Functions
Impulse switch mode with off delay.
The control input allows the connection of pushbuttons with a glow lamp load up to 100mA and enables the application in 3- or 4-wire circuits.
The unit can be switch-on and off via the connected pushbuttons.

2. Time ranges
Adjustment range
Time  6 to 60min

3. Indicators
Green LED U ON:  indication of supply voltage
Yellow LED ON/OFF:  indication of relay output

4. Mechanical design
Self extinguishing plastic housing, IP rating IP 40
Mounted on Din-rail TS 35 according to EN 60715
Mounting position: any
Shockproof terminal connection according to VBG 4 (PZ1 required), IP rating IP20
Tightening torque: max. 1Nm
Terminals capacity:
1 x 0.5 to 2.5mm² with/without multicore cable end
1 x 4mm² without multicore cable end
2 x 0.5 to 1.5mm² with/without multicore cable end
2 x 2.5mm² flexible without multicore cable end

5. Input circuit
Supply voltage:  Terminals L - N
Rated voltage:  see table ordering information or printing on the unit
Tolerance:  -15% to +10%
Rated consumption:  2VA (1.0W)
Rated frequency:  AC 48 to 63Hz
Duty cycle:  100%
Reset time:  500ms
Hold-up time:  -
Residual ripple for DC:  -
Drop-out voltage:  >30%
Overvoltage category:  III (in accordance with IEC 60664-1)
Rated surge voltage:  4kV

6. Output
1 normally open contact  terminals L - 18
Rated voltage:  250V AC
Switching capacity:  10A continuous current
If the distance between the devices is less than 5mm!

Switching capacity:  16A continuous current
If the distance between the devices is greater than 5mm!
Start-up peak (20ms):  80A
Mechanical life:  30 x 10⁶ operations
Electrical life:  -
Resistive load:  10⁶ operations at 16A 250V
Lamp load:  80.000 operations at 1000W 250V

7. Control input B1
Connection not potential free: pushbuttons B1-N (3-conductor circuit)
pushbuttons B1-L (4-conductor circuit)
Glow lamp load:  max. 100mA parallel to the pushbuttons
Overload protection:  yes, electronic

8. Accuracy
Base accuracy:  ±5% of maximum scale value
Adjustment accuracy:  <15% of maximum scale value
Repetition accuracy:  <2%
Voltage influence:  -
Temperature influence:  ±1%

9. Ambient conditions
Ambient temperature:  -25 to +55°C
Storage temperature:  -25 to +70°C
Transport temperature:  -25 to +70°C
Relative humidity:  15% to 85%
(in accordance with IEC 60721-3-3 class 3K3)
Pollution degree:  2, if built in 3
(in accordance with IEC 60664-1)

11. Weight
Single packing:  57g
Functions

**Impulse switch mode with off delay:**

In this mode, every keypress toggles the output relay R (flip-flop). After the pushbutton at B1 has been pressed, the output relay R closes (terminals L-18 / yellow LED illuminated) and the set interval t begins. After the interval t has expired the output relay R switches into off-position (yellow LED not illuminated). If the pushbutton is pressed again before the interval t has expired, the interval t will be canceled and the output relay R switches into off-position (yellow LED not illuminated).

**Connections**

3-wire-circuit

```
<table>
<thead>
<tr>
<th>B1</th>
<th>R</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>18</td>
</tr>
</tbody>
</table>
```

4-wire-circuit with attic illumination

```
<table>
<thead>
<tr>
<th>B1</th>
<th>R</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B1</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td></td>
</tr>
</tbody>
</table>
```

**Dimensions**

```
5mm | 44mm | 60mm
17.5mm |
```

**Ordering Information**

<table>
<thead>
<tr>
<th>Types</th>
<th>Time ranges</th>
<th>Supply Voltage</th>
<th>Part. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1ZWI 60min 230V AC</td>
<td>6 to 60min</td>
<td>230V AC</td>
<td>110310</td>
</tr>
</tbody>
</table>

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Subject to alterations and errors